

INTERNATIONAL SEARCH REPORT

International Application No
PCT/GB2004/005399

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F02M29/04 F02M31/135

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F02M F01N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 3 447 514 A (JAMES E. TRAFFORD) 3 June 1969 (1969-06-03) the whole document	1-12, 18-26, 28,29, 31-33, 35,36,45
X	US 1 614 322 A (SMITH ARTHUR M) 11 January 1927 (1927-01-11) the whole document	1-37,45
X	US 4 361 128 A (GOLDMAN, DECEASED ET AL) 30 November 1982 (1982-11-30) the whole document	1-37,45
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

31 March 2005

Date of mailing of the international search report

07/04/2005

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Information on patent family members

International Application No

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 3447514	A	03-06-1969	NONE	
US 1614322	A	11-01-1927	NONE	
US 4361128	A	30-11-1982	NONE	
US 4059082	A	22-11-1977	US 3952716 A DE 2527633 A1 FR 2276471 A1 GB 1494583 A IT 1058222 B JP 905551 C JP 51017718 A JP 52033256 B	27-04-1976 15-01-1976 23-01-1976 07-12-1977 10-04-1982 18-04-1978 12-02-1976 26-08-1977
US 5580368	A	03-12-1996	NONE	
US 5180406	A	19-01-1993	NONE	